IN THE CLAIMS

Please **ADD** claims 18-20 in accordance with the following:

1. (PREVIOUSLY PRESENTED) A method of forming a first state and a second state alternatively and sequentially on an optical recording medium in response to input data having a first level and a second level in an optical recording apparatus, the method comprising:

generating a recording waveform which includes a first multi-pulse having a plurality of first pulses corresponding to the first level of the input data and a second multi-pulse having a plurality of second pulses corresponding to the second level of the input data,

wherein a leading one of the second pulses is set to a low level and a power level between an end of the second multi-pulse and a first one of the pulses of the first multi-pulse is set to a high level.

2. (ORIGINAL) The method of claim 1, further comprising:

forming the first state on the optical recording medium according to the first pulses of the first multi-pulse; and

forming the second state on the optical recording medium according to the second pulses of the second multi-pulse.

3. (ORIGINAL) The method of claim 1, further comprising:

forming a mark as the first state on the optical recording medium according to the first multi-pulse; and

forming a the space as the second state on the optical recording medium according to the second multi-pulse.

4. (ORIGINAL) The method of claim 1, wherein the generating of the recording waveform comprises:

changing the first multi-pulse according to a characteristic of the second pulses of the second multi-pulse.

5. (ORIGINAL) The method of claim 4, wherein the second multi-pulse comprises a starting pulse and an ending pulse, and the changing of the first multi-pulse comprises:

changing a starting pulse of the first multi-pulse according to a characteristic of one of the starting pulse and the ending pulse of the second multi-pulse.

6. (ORIGINAL) The method of claim 5, wherein the changing of the starting pulse of the first multi-pulse comprises:

changing a voltage level of the starting pulse of the first multi-pulse.

7. (ORIGINAL) The method of claim 1, further comprising:

generating information data representing a characteristic of one of the first multi-pulse and the second multi-pulse.

8. (ORIGINAL) The method of claim 7, further comprising:

rotating the optical recording medium in response to the information data.

9. (ORIGINAL) The method of claim 7, further comprising:

rotating the optical recording medium at a speed corresponding to the information data.

10. (ORIGINAL) The method of claim 7, further comprising:

recording the information data on the optical recording medium.

11. (PREVIOUSLY PRESENTED) A method of forming a first state and a second state alternatively and sequentially on an information storage medium in response to input data having a first level and a second level, respectively, in a recording apparatus, the method comprising:

generating a recording waveform which comprises a recording pattern corresponding to the first level of the input data, an erase pattern having a multi-pulse corresponding to the second level of the input data, and a cooling pulse concatenating the recording and erase patterns,

wherein a leading pulse of the multi-pulse is set to a low level and a power level between an end of the multi-pulse and a first pulse of the recording pattern is set to a high level.

12. (PREVIOUSLY PRESENTED) A method of forming a first state and a second state alternatively and sequentially on an information storage medium in response to input data having a first level and a second level, respectively, in a recording apparatus, the method comprising:

generating a recording waveform which comprises a recording pattern corresponding to the first level of the input data, an erase pattern having a multi-pulse corresponding to the second level of the input data, and a cooling pulse concatenating the recording and erase patterns,

wherein a leading pulse of the multi-pulse is set to a high level and a power level between an end pulse of the multi-pulse and a first pulse of the recording pattern is set to a high level.

13. (PREVIOUSLY PRESENTED) A method of forming a first state and a second state alternatively and sequentially on an information storage medium in response to input data having a first level and a second level, respectively, in a recording apparatus, the method comprising:

generating a recording waveform which comprises a recording pattern corresponding to the first level of the input data, an erase pattern having a multi-pulse corresponding to the second level of the input data, and a cooling pulse concatenating the recording and erase patterns,

wherein a leading pulse of the multi-pulse is set to a low level and a power level between an end pulse of the multi-pulse and a first pulse of the recording pattern is set to a low level.

14. (PREVIOUSLY PRESENTED) A method of forming a first state and a second state alternatively and sequentially on an optical recording medium in response to input data having a first level and a second level in an optical recording apparatus, the method comprising:

generating a recording waveform which includes a first multi-pulse having a plurality of first pulses corresponding the first level of the input data and a second multi-pulse having a plurality of second pulses corresponding to the second level of the input data,

wherein a leading second pulse is set to a high level and a power level between an end second pulse of the second multi-pulse and a leading first pulse is set to a high level.

15. (PREVIOUSLY PRESENTED) A method of forming a first state and a second state alternatively and sequentially on an optical recording medium in response to input data having a first level and a second level in an optical recording apparatus, the method comprising:

generating a recording waveform which includes a first multi-pulse having a plurality of first pulses corresponding the first level of the input data and a second multi-pulse having a plurality of second pulses corresponding to the second level of the input data,

wherein a leading second pulse is set to a low level and a power level between an end second pulse of the second multi-pulse and a leading first pulse is set to a low level.

16. (PREVIOUSLY PRESENTED) A method of forming a first state and a second state alternatively and sequentially on an optical recording medium in response to input data having a

first level and a second level in an optical recording apparatus, the method comprising:

generating a recording waveform which includes a first multi-pulse having a plurality of first pulses corresponding to the first level of the input data and a second multi-pulse having a plurality of second pulses corresponding to the second level of the input data,

wherein

one of the first and second states corresponds to a space formed using an erase pattern including the corresponding one of the first and second multi-pulses having a high erase power and a low erase power for corresponding pulses,

the other one of the first and second states corresponds to a mark formed using a recording pulse including the corresponding other one of the first and second multi-pulses having a high write power and a low write power for corresponding pulses,

the low erase power is greater than the low write power, and

the generating of the recording waveform comprises causing a power level of a leading pulse of the erase pattern to be the same erase power as a power level of a trailing pulse of the erase pattern.

17. (PREVIOUSLY PRESENTED) A method of forming a first state and a second state alternatively and sequentially on an optical recording medium in response to input data having a first level and a second level in an optical recording apparatus, the method comprising:

generating a recording waveform which includes a first multi-pulse having a plurality of first pulses corresponding to the first level of the input data and a second multi-pulse having a plurality of second pulses corresponding to the second level of the input data,

wherein

one of the first and second states corresponds to a space formed using an erase pattern including the corresponding one of the first and second multi-pulses having a high erase power and a low erase power for corresponding pulses,

the other one of the first and second states corresponds to a mark formed using a recording pulse including the corresponding other one of the first and second multi-pulses having a high write power and a low write power for corresponding pulses,

the low erase power is greater than the low write power, and

the generating of the recording waveform comprises causing a power level of a leading pulse of the erase pattern to be the low erase power.

18. (NEW) The method of claim 1, further comprising recording the first state and the

second state according to the generated recording waveform using a light having a wavelength of substantially 405 nm.

19. (NEW) The method of claim 16, further comprising recording the first state and the second state according to the generated recording waveform using a light having a wavelength of substantially 405 nm.

20. (NEW) The method of claim 17, further comprising recording the first state and the second state according to the generated recording waveform using a light having a wavelength of substantially 405 nm.